

ABSTRACT OF THE INVENTION

A novel T-type calcium channel (CACNA1G) is provided, as are polynucleotides encoding the same. CACNA1G has been implicated in cellular proliferative disorders. More specifically, it has been observed that the methylation state of specific regions within CpG islands associated with the CACNA1G gene correlates with a number of cancerous phenotypes involving a variety of tissue and cell types. Also provided are methods for detecting cellular proliferative disorders by determining the methylation state of genes or regulatory regions associated therewith, including CACNA1G, as well as kits containing reagents for performing invention methods.